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PHOTOGRAPHIC INTELLIGENCE REPORT

COMPARISON OF AIR-TO-SURFACE MISSILE  
AREA AT SHUANG-CHENG-TZU MISSILE TEST  
CENTER, CHINA WITH SELECTED SOVIET  
ASM FACILITIES

Declassification  
Review by NIMA/DoD

GROUP 1  
Excluded from automatic  
downgrading and declassification

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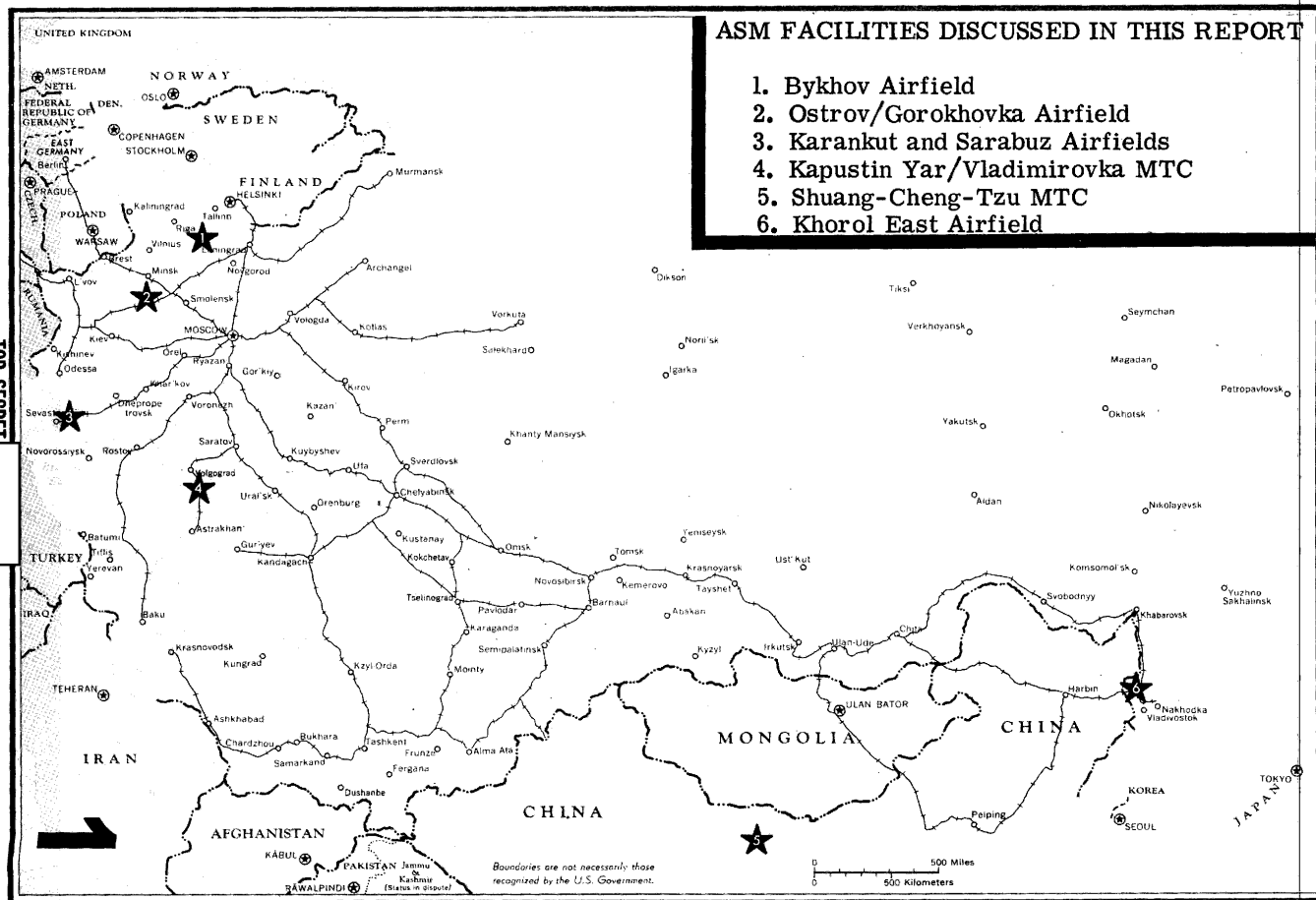
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# ASM FACILITIES DISCUSSED IN THIS REPORT

1. Bykhov Airfield
2. Ostrov/Gorokhovka Airfield
3. Karankut and Sarabuz Airfields
4. Kapustin Yar/Vladimirovka MTC
5. Shuang-Cheng-Tzu MTC
6. Khorol East Airfield





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COMPARISON OF AIR-TO-SURFACE MISSILE AREA AT  
SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA  
WITH SELECTED SOVIET ASM FACILITIES

INTRODUCTION

The identification [ ] of an air-to-surface (ASM) missile area at the Shuang-Cheng-Tzu Missile Test Center Airfield (41-05N 100-15E), has prompted a comparison study of this facility with selected Soviet ASM facilities. Accordingly, the air-to-surface missile facility at Vladimirovka Airfield, a component of the Kapustin Yar/Vladimirovka Missile Test Center, (48-34N 45-54E) identified in [ ] and the ASM facilities located at the following airfields were selected for study and comparison (Figure 1).

<u>Name</u>	<u>Coordinates</u>	<u>Date Identified</u>
Bykhov Airfield, USSR	53-31N 30-12E	[ ]
Karankut Airfield, USSR	45-34N 34-16E	
Khorol East Airfield, USSR	44-27N 132-08E	
Ostrov/Gorokhovka Airfield, USSR	57-18N 28-26E	
Sarabuz Airfield, USSR	45-07N 33-59E	

These five airfields are subordinate to the Soviet Naval Air Forces. The ASM facilities located at these airfields provide a good example of the different configurations existing in deployed ASM facilities. A short description of each is provided with accompanying graphics to illustrate variations in location, size, number of buildings, etc. among the deployed and R and D facilities at the missile test centers. This is followed by a discussion of the results of comparative analysis.

DESCRIPTION

Bykhov Airfield ASM Facility, USSR (53-31N 30-12E)

This facility is located on the north end of the airfield immediately east of the parking apron. It contains the following: two large and one small earth mounded drive-through buildings; two large probable drive-through buildings under construction; one tall, probable drive-through assembly and checkout building with a possible adjoining shop extension; another small

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building; a bunker and open storage (Figures 2 and 3). The probable drive-through assembly and checkout building appears to be separately secured. The facility has direct connection to the airfield parking apron and special weapons loading area. A solid security fence encloses the facility.

Karankut Airfield ASM Facility, USSR (45-34N 34-16E)

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This facility is located at the northwest corner of the airfield adjacent [redacted] Both facilities are enclosed by a solid security fence but are separated by an internal fence (Figures 4 and 5). The ASM facility contains two large earth mounded, drive-through buildings, one tall possible assembly and checkout building, one possible bunker, and two special weapons loading pits.

Khorol East Airfield ASM Facility, USSR (44-27N 132-08E)

This facility is located approximately 2.6 nautical miles (nm) east of the airfield (Figures 6 and 7). It contains ten large drive-through storage buildings, one large drive-through probable assembly and checkout building with an adjoining possible shop extension, one building located on the apron behind the probable assembly and checkout building, three small barracks-type buildings, and two small buildings in a separately secured area. One small building is located on an apron approximately 2,200 feet outside the fenced area, to the north-northwest. A small hardstand is connected to the area of the probable assembly and checkout building by a loop road. The facility is secured by a double fence, the inner one being solid.

Ostrov/Gorokhovka Airfield ASM Facility, USSR (57-18N 28-26E)

This facility is located approximately 2.7 nm northwest of the center of the airfield runway (Figures 8 and 9). It contains twenty drive-through storage buildings, one drive-through probable assembly and checkout building with an adjoining shop extension, four small barracks type buildings, and one building located on the apron behind the probable assembly and checkout building. Five other small buildings are located both inside and outside the security fence. A small building is situated on an apron approximately 3,300 feet east-southeast of the center of the facility, outside the fenced area. A small hardstand is connected to the area of the probable assembly and checkout building by a loop road. The facility is secured by a double fence, the inner one being solid.

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Sarabuz Airfield ASM Facility, USSR (45-07N 33-59E)

This facility is probably composed of three separate installations (Figures 10 and 11). The first is located adjacent to the northeast end of the airfield and contains the following: three drive-through buildings; one large drive-through probable assembly and checkout building with another small drive-through building nearby; two separately secured drive-through buildings; five storage-type buildings; three small barracks-type buildings; one revetted, "T" shaped, possible drive-through building; and open storage. A small hardstand is connected to the probable assembly and checkout building area by a loop road. The facility is secured by a single solid fence.

The second installation, probably for ASM storage, is located approximately 1.5 nm northwest of the airfield and contain five large drive-through storage buildings and one small drive-in building. The facility is secured by a double fence.

The third installation is located approximately three nm west of the airfield and is considered to be warhead storage. It contains two revetted and two unrevetted buildings, a small structure within a circular revetment, a large hardstand, and at least one and possibly two bunkers. The facility is secured by a double fence.

Vladimirovka Airfield ASM Facility, USSR (48-18N 46-11E)

This facility, located immediately east of the airfield, comprises part of the Airborne Weapons Complex at the Test Center. For purposes of this report, the ASM portion of the complex is being treated as a separate facility (Figures 12 and 13). The facility contains one large, high-bay, drive-through assembly and checkout building with two side shops. A small flat-roofed structure adjoins the northwest corner of the building. Also present are two large drive-through buildings, one "U" shaped building, four smaller buildings, a large aircraft parking apron, and a loading pit. The entire complex is enclosed by a solid fence or wall.

Shuang-Cheng-Tzu Airfield ASM Area, China (40-17N 99-46E)

This facility, located at the southwest end of the airfield, contains a total of seventeen buildings plus a rail-to-road transfer area (Figures 14 and 15). Among these buildings are one large, high-bay, drive-through assembly

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and checkout building with two side shops and a small flat-roofed structure adjoining the northwest corner of the building, one small drive-through building with two roof levels to the rear of the assembly and checkout building, eight other storage-type buildings mostly situated on small aprons, a steam heating plant, and four storage/receiving-type buildings situated along the hardstand at the rail transfer area.

### DISCUSSION

An overall comparison of these facilities is not practicable because of the variations, plus the fact that two of the facilities are at major missile test centers. It should be noted from the description that the facilities are located at varying distances from the adjacent airfield and there is considerable variation in the size of the facilities and the number of buildings they contain. One, Karankut, [ ] while another, Sarabuz, is separated into three installations. This variety of dissimilarity prompts a listing of similarities as follows:

1. The major similarity was found in the large assembly and checkout building present in the facilities at Shuang-Cheng-Tzu and Vladimirovka. The buildings are identical in size and shape, both have two side shops and a small structure adjoining the northwest corner, and both are adjacent to a large aircraft parking apron (Figures 13 and 15). The number and size of parking hardstands in both areas are also similar. The taxiway leading from the hardstands to the runway is the widest taxiway at either airfield, being 110 feet wide at Shuang-Cheng-Tzu and 80 feet wide at Vladimirovka.

2. The similarity in the assembly and checkout buildings at the test centers was found to a degree at the five deployed facilities. At each of these, there is present either a large, drive-through assembly and checkout building with shop extensions or a tall building which could serve the same purpose. These are all situated on a hardstand or apron.

3. At the Shuang-Cheng-Tzu facility, a drive-in building is located to the rear of the assembly and checkout building. At Khorol East and Ostrov/Gorokhorka, a small building is located behind the assembly and checkout buildings. At Sarabuz, a small drive-through building is located near the assembly and checkout building. At the two remaining facilities, Bykhov and Karankut, there is a bunker which is not present at the other three deployed facilities. Vladimirovka has neither of these features but does have two large drive-through buildings to the rear of the assembly and checkout building which are not present at any of the other facilities.

4. Bykhov, Karankut, and Vladimirovka have loading pits. None have been identified at Shuang-Cheng-Tzu and loading is probably done on the parking

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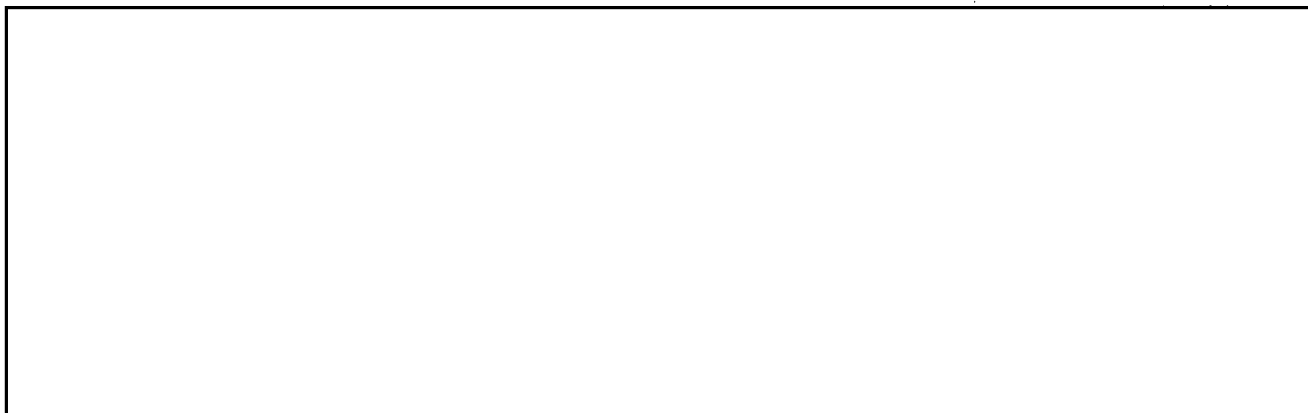
aprons, as is probably the case for Khorol East, Ostrov/Gorokhovka, and Sarabuz.

5. At Khorol East, Ostrov/Gorokhovka, and Sarabuz, there is a small apron connected to the assembly and checkout building area by a loop road. No counterpart for this feature is presented at the other facilities.

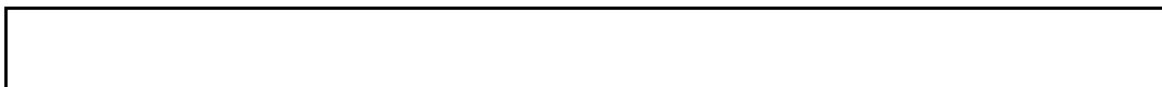
6. At Khorol East and Ostrov/Gorokhovka, a small building on a hardstand is located a short distance away from the facility, approximately 2,200 and 3,300 feet respectively. Neither one appears secured. This feature does not appear at the other three deployed sites nor was it detected at the test center facilities.

REFERENCES

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NPIC. R-97/63, Launch Complex D and Vladimirovka Airfield Activity, Kapustin Yar/Vladimirovka Missile Test Center, USSR, June 1963  
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SPECIAL WEAPONS  
LOADING AREA



ASM FACILITY

BYKHOV AIRFIELD

ASM FACILITY



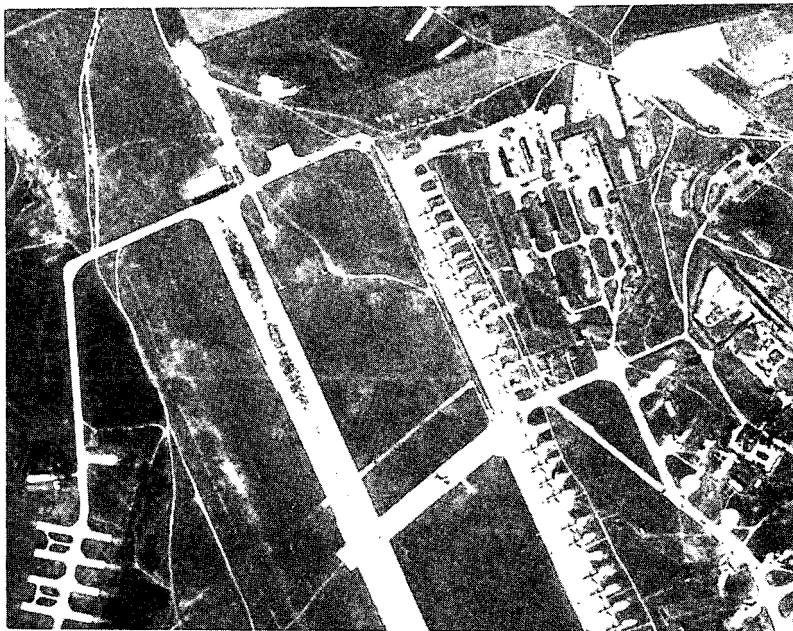
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BYKHOV AIRFIELD ASM FACILITY, USSR  
53-31N 30-12E

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- 2 earth mounded, drive-through buildings, 220 by 85 feet.
- 1 earth mounded, drive-through building, 140 by 65 feet.
- 2 probable drive-through buildings, under construction, 200 by 45 feet.
- 1 tall building with possible shop extension, 105 by 80 feet.
- 1 bunker approximately 60 feet in diameter.

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KARANKUT AIRFIELD AND ASM FACILITY, USSR

45-34 N 34-16 E

ASM FACILITY



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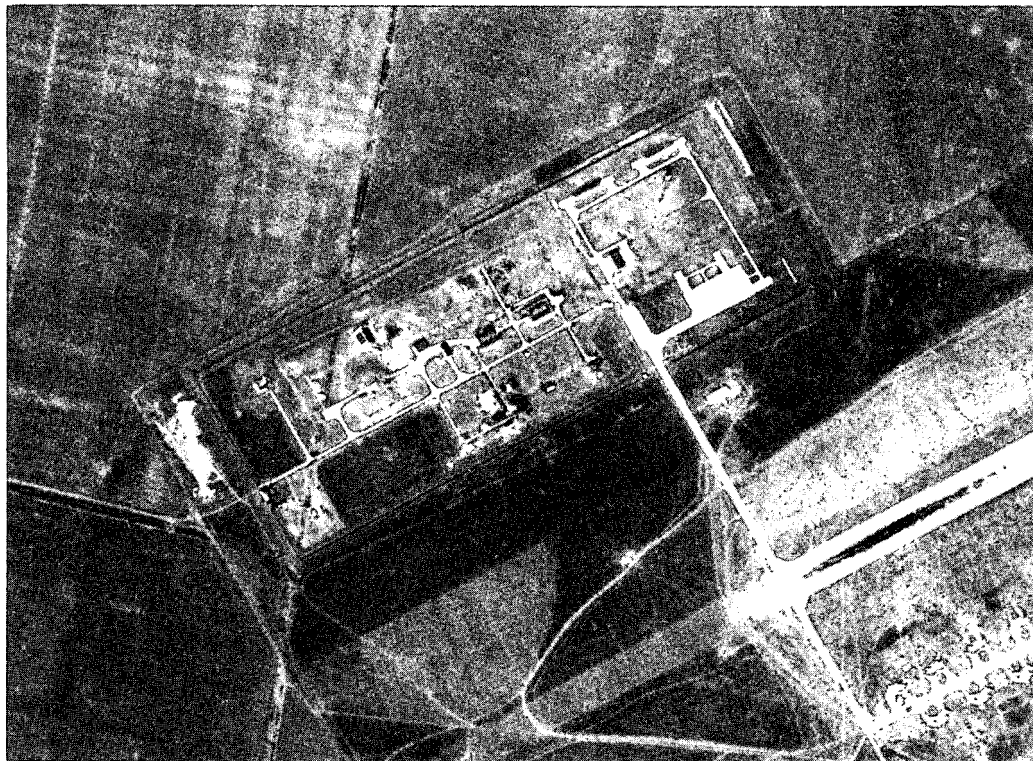
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KARANKUT AIRFIELD ASM FACILITY, USSR  
45-34N 34-16E

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- 2 earth mounded, drive-through buildings, 240 by 80 feet.
- 1 tall building, 95 by 55 feet.
- 2 special weapons loading pits.
- 1 possible bunker approximately 50 feet in diameter.

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KHOROL EAST AIRFIELD AND ASM FACILITY, USSR

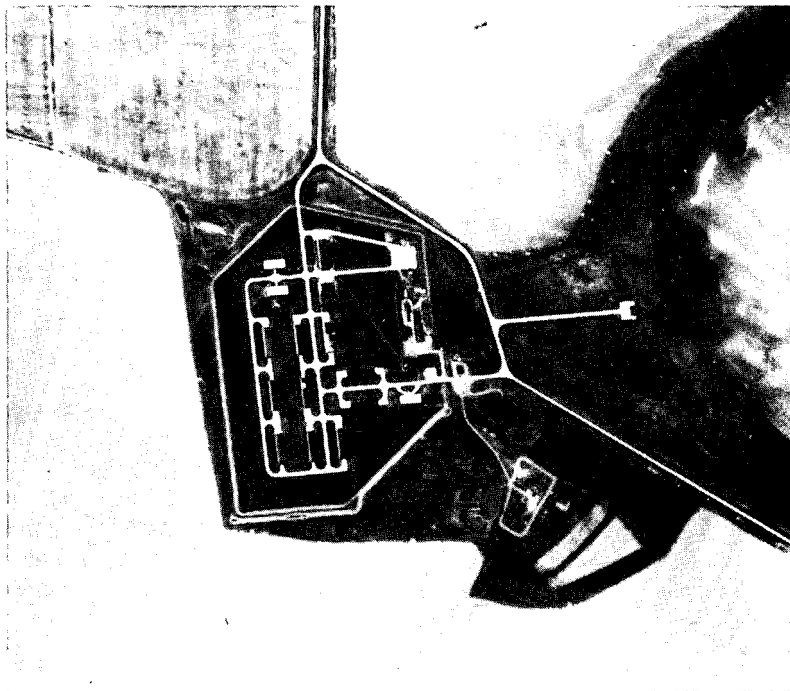
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ASM FACILITY

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KHOROL EAST AIRFIELD ASM FACILITY, USSR  
44-27N 132-08E

- 10 drive-through buildings, 220 by 50 feet.  
1 drive-through with possible shop extension, 210 by 70 feet.  
1 building, 100 by 55 feet.  
3 buildings, 155 by 60 feet.  
Separately secured area containing two small buildings.  
1 building, 65 by 40 feet, located on an apron approximately  
2,200 feet north-northwest of the center of the facility.

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OSTROV/GOROKHOVKA AIRFIELD AND ASM FACILITY, USSR

57-10N 28-26E

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ASM FACILITY

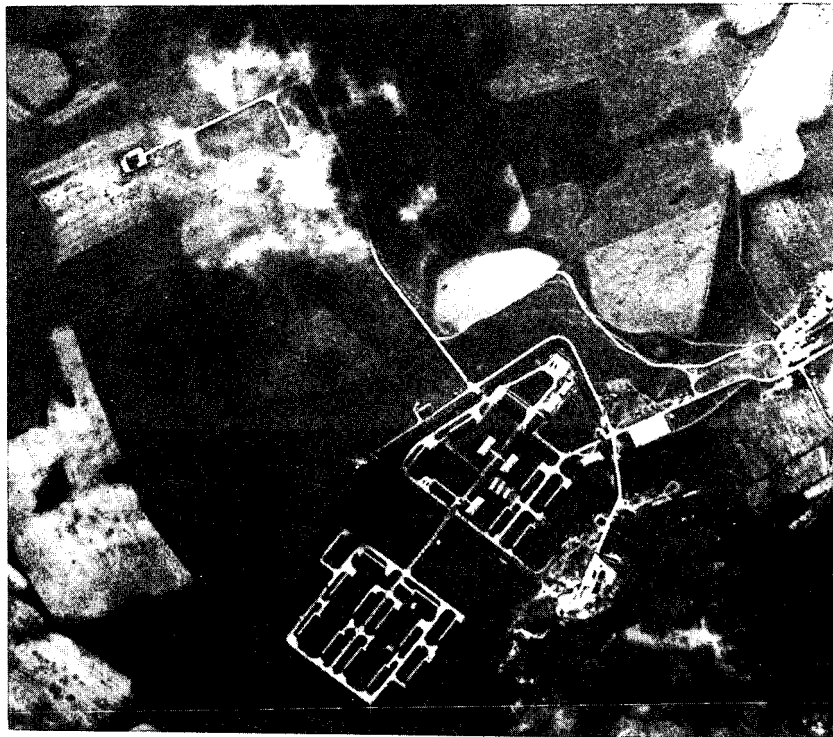
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OSTROV/GOROKHOVKA AIRFIELD ASM FACILITY, USSR  
57-18N 28-26E

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- 20 drive-through buildings, 190 by 40 feet.
- 1 drive-through building with shop extension, 195 by 55 feet.
- 1 building, 110 by 50 feet.
- 4 buildings, 140 by 60 feet.
- 1 small security building at the entrance.
- 3 small buildings.
- 1 small building outside the security fence.
- 1 building, 55 by 55 feet, located on an apron approximately 3,300 feet east-southeast of the center of the facility.

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ASM FACILITY

SARABUZ AIRFIELD AND ASM FACILITIES, USSR

45-07 N 33-59 E

ASM STORAGE

WARHEAD STORAGE

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SARABUZ AIRFIELD ASM FACILITY, USSR  
45-07N 33-59E

25X

- 3 drive-through buildings, 140 by 40 feet.
- 1 drive-through building, 175 by 60 feet.
- 1 drive-through building, 100 by 30 feet.
- 2 drive-through buildings in a separately secured area, 140 by 45 feet.
- 5 buildings, 150 by 60 feet.
- 3 buildings, 125 by 45 feet.
- 1 revetted, "T" shaped, possible drive-through building; main section 115 by 90 feet, and cross bar 20 by 115 feet.

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VLADIMIROVKA AIRFIELD AND ASM FACILITY, USSR

48-18 N 45-11 E

ASM FACILITY



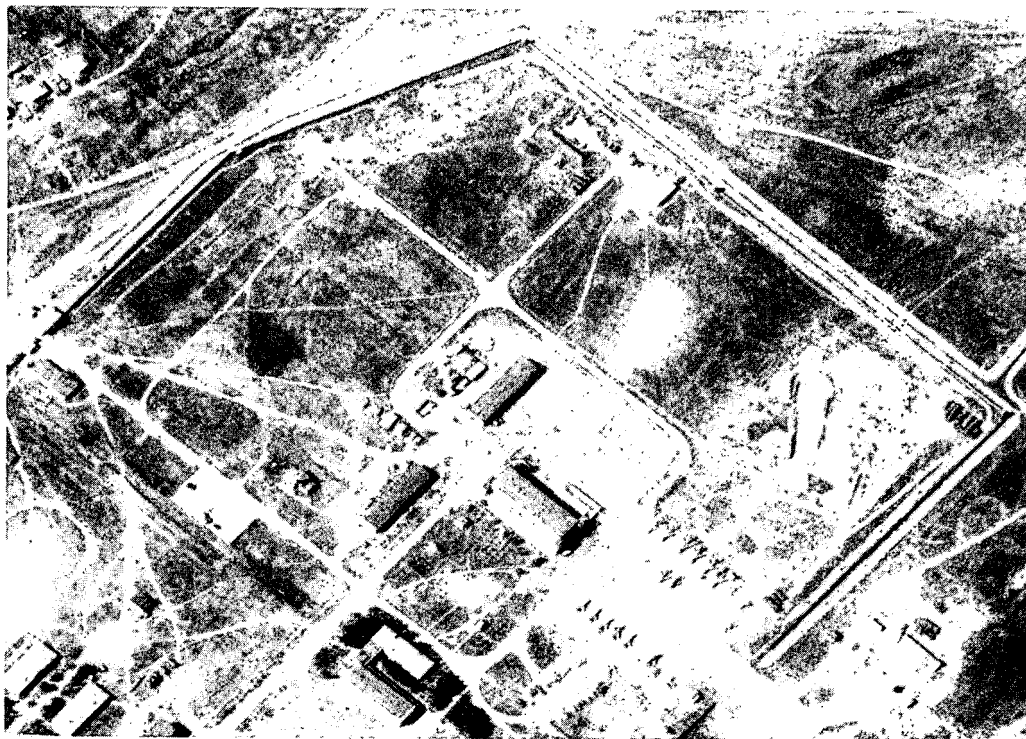
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VLADIMIROVKA AIRFIELD ASM FACILITY, USSR  
48-18N 46-11E

- 1 high-bay drive-through building measuring 200 by 105 feet including two side shops measuring 200 by 20 feet. A small flat-roofed structure is located at the northwest corner of the building.
- 2 drive-through buildings 200 by 45 feet.
- 1 "U" shaped building with a gable-roofed section 145 by 50 feet; a drive-in flat-roofed section 165 by 55 feet with a flat-roofed adjoining shop section 150 by 15 feet; and a flat-roofed connecting section 105 by 35 feet.
- 1 building 105 feet long in two sections with different heights, 65 by 40 feet and 40 by 50 feet.
- 1 building with a high mid-section 70 by 30 feet.
- 1 gable-roofed building 60 by 30 feet.
- 1 flat-roofed building 50 by 25 feet.

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ASM AREA

SHUANG CHENG-TZU AIRFIELD AND ASM AREA, CHINA

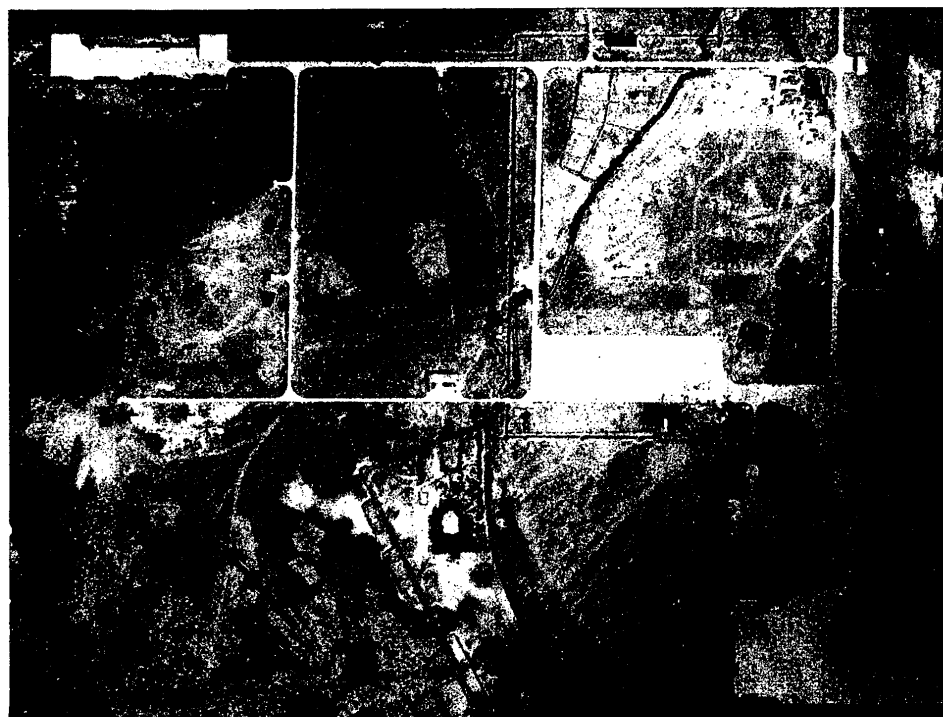
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SHUANG-CHENG-TZU AIRFIELD ASM AREA, CHINA  
40-17N 99-46E



- 1 high-bay drive-through building measuring 200 by 105 feet including 2 side shops measuring 200 by 20 feet. A 20 by 20 foot flat-roofed structure is located at the northwest corner of the building.
- 1 drive-through building with 2 heights 65 by 45 feet.
- 2 gable-roofed buildings 105 by 35 feet.
- 1 flat-roofed building 110 by 35 feet.
- 1 flat-roofed building 80 by 20 feet.
- 1 gable-roofed building 50 by 20 feet.
- 1 gable-roofed building 40 by 30 feet.
- 2 flat-roofed buildings 35 by 15 feet.
- 2 flat-roofed buildings 25 by 10 feet.
- 1 gable-roofed steam/heating plant 45 by 30 feet with a 30 by 15 foot flat-roofed extension.
- Railroad unloading and storage area with 4 buildings on edge of apron: 2 gable-roofed 100 by 30 feet and 2 flat-roofed 80 by 20 feet.

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